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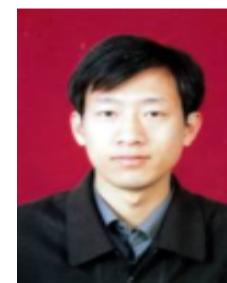
■ 光荣退休

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教育背景

2007/03—2011/01东南大学 能源与环境学院热能与动力工程系 博士

2001/09—2004/05安徽工业大学 冶金与资源学院冶金工程系 硕士

1996/09—2000/07安徽工业大学 冶金与资源学院热能与动力工程系 学士

研究方向

生物质/固废资源化利用和多污染物协同控制技术

科研项目

1. 2021年 安徽省自然科学基金面上项目“基于酸洗污泥深度还原的蒸汽-铁法制氢机理及重金属稳定性研究”(No. 2108085ME161)
2. 2019年 安徽省高校自然科学研究项目“基于核壳型Ca-Fe基的高炉煤气Ca-L耦合CLC工艺碳捕捉研究”(NO. KJ2019A0087)

教研项目

1. 2019年 燃料与燃烧学(2018mooc032) 省级质量工程项目中大规模在线开放课程(MOOC)示范项目
2. 2020年 燃料及燃烧学课程思政体系的构建与实践探索(2020kcszyjxm026) 安徽省级课程思政建设研究项目
3. 2020年 燃料及燃烧学 省级示范课

代表性论文专著

一作：

[1] Duan F., Jin B.S., Huang Y.J., Li B., Wu Y.M., Zhang M.Y. Results of bituminous coal gasification upon exposure to a pressurized pilot-plant circulating fluidized-bed (CFB) reactor [J]. Energy Fuels, 24(5): 3150-3158, 2010 (SCI、EI收录)

- [2] Duan F., Wan H.P., Han Y.L., Chyang C.S., Chen H.J., Tso J. Characteristics of fluidized bed combustion with intermittent feeding using woodblocks and rubber. 2. pollutant emissions [J] Energy Fuels, 26(9): 5577–5582, 2012 (SCI、EI收录)
- [3] Duan F., Zhang L.H., Huang Y.J. Dependence of bituminous coal gasification on pressure in a turbulent circulating fluidized bed [J], Asia-Pac. J. Chem. Eng., 7(6): 822-827, 2012 (SCI、EI收录)
- [4] Duan F., Liu J., Chyang C.S., Hu C.S., Tso J. Combustion behavior and pollutant emission characteristics of refuse derived fuel (RDF) and sawdust in a vortexing fluidized bed combustor [J]. Energy, 57:421-426, 2013. (SCI、EI收录)
- [5] Duan F., Chyang C.S., Hsu S.H., Tso J. Combustion behavior and pollutant emissions of batch fluidized bed combustion. [J] J. Taiwan Inst. Chem. E., 44: 1034-1038, 2013 (SCI、EI收录)
- [6] Duan F. Chyang C.S., Chin Y.C., Tso J. Pollutant emission characteristics of rice husk combustion in a vortexing fluidized bed incinerator. [J] J. Environ. Sci, 25(2):335-339, 2013 (SCI、EI收录)
- [7] Duan F., Cong S.Q. Shannon entropy analysis of dynamic behavior of Geldart group B and Geldart group D particles in a fluidized bed. [J] Chem. Eng. Commun., 200(4):575-586, 2013 (SCI、EI收录)
- [8] Duan F., Chyang C.S., Lin C.W., Tso J. Experimental study on rice husk combustion in a vortexing fluidized-bed with flue gas recirculation (FGR). [J] Bioresource Technol., 134: 204-211, 2013 (SCI、EI收录)
- [9] Duan F., Chyang C.S., Wen J.R., Tso J. Incineration of kitchen waste with high nitrogen in vortexing fluidized-bed incinerator and its NO emission characteristics. [J] J. Environ. Sci, 25(9):1841-1846, 2013 (SCI、EI收录)
- [10] Duan F., Chyang C.S., Wang Y.J., Tso J. Effect of secondary gas injection on the peanut shell combustion and its pollutant emissions in a vortexing fluidized bed combustor, [J] Bioresource Technol., 154: 201-208, 2014 (SCI、EI收录)
- [11] Duan F., Chyang C.S., Wang J.T., Tso J. Spent activated carbon combustion in a fluidized bed combustor. [J] Energy Fuels, 28:1463-1469, 2014 (SCI、EI收录)
- [12] Duan F., Chyang C.S., Tso J. Comparison of combustion behaviors and pollutant emissions using bituminous coal and corncob in a fluidized bed combustor. [J] Asia-Pac. J. Chem. Eng., 9:718-725,2014 (SCI, EI收录)
- [13] Duan F., Zhang J.P., Chyang C.S., Wang Y.J., Tso J. Combustion of crushed and palletized peanut shells in a pilot-scale fluidized-bed combustor with flue gas recirculation [J]. Fuel Process. Technol., 128, 28-35, 2014 (SCI、EI收录)
- [14] Duan F., Chyang C.S., Zhang L.H., et al. Bed agglomeration characteristics of rice straw combustion in a vortexing fluidized-bed combustor[J] Bioresource Technol., 183, 195-202, 2015 (SCI、EI收录)
- [15] Duan F., Chyang C.S., Zhang L.H., et al. Effect of the Molecular Structure of Nitrogen Compounds on the Pollutant Formation in a Bubbling Fluidized-bed Combustor[J] Energy, 83,394-402, 2015 (SCI、EI收录)
- [16] Duan F., Sun X.R., Zhang Y.S., Hu. A.F., Chyang C.S. Combustion behavior and NO emission characteristic of biomass in O₂/CO₂ atmosphere [J]. Journal of Southeast University (English Edition), 31(2):200-203, 2015 (EI收录)
- [17] Duan F., Chen J., Zhang L.H., et al. Investigation of the vortexing effect on sawdust combustion in a fluidized bed combustor [J] Energy Fuels, 30 (3), 1701–1707, 2016 (SCI、EI收录)
- [18] Duan F., Zhang L.H., Sun X.R., Huang Y.J. Comparison of thermal behavior for modified calcium magnesium acetate blended separately with peanut shell and sewage sludge at different atmospheres [J]. Journal of Thermal Analysis and Calorimetry, 127(3), 2417-2425, 2017
- [19] Duan F., Zhang L.H., Huang Y.J. Sulfur Release and Migration Characteristics of Sewage Sludge Combustion under the Effect of Organic Calcium Compound Addition [J]. Energy Fuels, 31 (5), 5525–5532, 2017
- [20] Cao S.S. I., Duan F. I., Zhang L.H., Chyang C.S. et al. Application of response surface methodology to determine effects of operational conditions on in-bed combustion fraction in vortexing fluidized-bed combustor using different fuels [J]. Energy, 139, 862-870, 2017.

通讯作者:

- * [1] Cong S.Q., **Duan F.** , Zhang Y.S., Liu J., Zhang J.P., Zhang L.H. SO₂ emission from municipal sewage sludge cocombustion with bituminous coal under O₂/CO₂ atmosphere versus O₂/N₂ atmosphere. [J]. Energy Fuels, 23, 7067-7071, 2013 (SCI、EI收录)
- * [2] Zhang Y.S., Zhang L.H., **Duan F.** * et al. Co-combustion characteristics of sewage sludge with different rank bituminous coals under the O₂/CO₂ atmosphere [J], Journal of Thermal Analysis and Calorimetry, 121, 729-736, 2015 (SCI、EI收录)
- [3] Sun X.R., Fang D.D., Zhang L.H., **Duan F.** *, Sun Y.L. Performance study of modified calcium magnesium acetate (MCMA) in the process of high temperature CO₂ capture and the application of spent MCMA for sequential SO₂ removal. [J]. Asia - Pacific Journal of Chemical Engineering, 12: 595–604, 2017 (SCI、EI收录)
- [4] Fang D.D. ¹, Chen J. ¹, Zhang L.H., **Duan F.** *, et al. Experimental study on the shrinkage characteristics and devolatilization time of wood in a turbulent fluidized bed combustor using computed tomography [J]. Energy, 141:348-357,2017 (SCI、EI收录)
- [5] Zhang L.H., **Duan F.** *, Chyang C.S.* Utilization of an organic calcium compound to reduce SO₂ and NO emissions from sewage sludge combustion [J]. Energy Fuels, 32, 3950-3957, 2018 (SCI、EI收录)
- ¹ [6] Chen J. ¹, Fang D.D. ¹, **Duan F.** *, et al. Pore characteristics and fractal properties of biochar obtained from the pyrolysis of coarse wood in a fluidized-bed reactor [J]. Applied Energy, 218, 54-65, 2018 (SCI、EI收录)
- [7] Cao S.S., **Duan F.** *, Wang P., Chyang C.S. Biochar contribution in biomass reburning technology and transformation mechanism of its nitrogen foundational groups at different oxygen contents [J]. Energy 155, 272-280, 2018 (SCI、EI收录)
- [8] Wu Q., He L.Q., Zhang L.H., **Duan F.** *, Pore and fractal descriptions of modified CaO-based sorbent for sequence SO₂/CO₂ capture behavior [J] Greenhouse Gases: Science and Technology, 9, 825–836, 2019 (SCI、EI收录)
- [9] Zhang L.H., **Duan F.** *, Wu X.R., NO and SO₂ removal and pore structure evolution during reburning with calcium magnesium acetate blended peanut shell [J] Journal of the Energy Institute 93, 614-623, 2020 (SCI、EI收录)
- [10] Zhang L.H., Yang X.J., Fang D.D., **Duan F.** *, Wang P.* Grindability, thermogravimetric characteristics, and kinetics analysis of semi - biochar from coarse wood pyrolyzed in a fluidized bed [J]. Asia - Pacific Journal of Chemical Engineering, 2020, 15, e2458 (SCI、EI收录)

[11] Li, Jingang; Zhang, Li-Hui*; **Duan, Feng*** Effect of the dried and hydrothermal sludge combustion on calcium carbonate decomposition in a simulated regeneration reactor of Calcium-looping [J] Energy & Fuels, 2020, 34, 4745–4753 (SCI、EI收录)

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